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the nature and

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development of the
knowledge that
elementary teachers
need to become
accomplished

mathematics teachers,
and suggests why such
knowledge seems

more common in China
than in the United

States, despite the fact
that Chinese teachers
have less formal
education than their
U.S. counterparts.

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Teaching Elementary Mathematics: Teachers ...

Every elementary math teacher should read it.

In China, elementary math teachers only teach math. They have discussions and shared planning time. They actually spend a lot of time studying math.

They don't assume they know it and are done. Because American elementary teachers teach all

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subjects, we don't have time to do what they do, which is a shame.

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Mathematics is an important book. For those who are skeptical that mathematics education research can say much of value, it can serve as a

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counterexample. For those interested in improving precollege mathematics education in the U.S., it provides important clues to the nature of the problem.

Amazon.com:
Knowing and Teaching Elementary Mathematics ...

Knowing and Teaching Elementary Mathematics: Teachers' Understanding of

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Mathematics in China
and the United States.

Liping Ma Lawrence
Erlbaum Associates,
Inc., 1999 Cloth,

\$45.00, ISBN
0-8058-2908-3

Softcover, \$19.95, ISBN
0-8058-2909-1

Notation: The reviewer
will refer to the book
under review as KTEM.

**Knowing and
Teaching Elementary
Mathematics**

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Knowing and Teaching
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Mathematics describes
the nature and

development of the
knowledge that

elementary teachers
need to become

accomplished
mathematics teachers,

and suggests why such
knowledge seems

more common in China
than in the United

States, despite the fact
that Chinese teachers

have less formal

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education than their
U.S. counterparts.

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American Educator,
v23 n3 p6-9,12-13,49
Fall 1999 Reports that
teaching elementary
mathematics requires
a much deeper
mathematical
knowledge than most
experts have believed
and that teachers must

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receive the training,
textbooks, time, and
support needed to
develop this
knowledge.

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Responsibility. Liping
Ma. Imprint. Mahwah,
N.J. : Lawrence

Erlbaum Associates,
1999. Physical

description. xxv, 166 p.
: ill. ; 24 cm. Series.

Studies in

mathematical thinking
and learning.

**Knowing and
teaching elementary
mathematics :
teachers ...**

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Mathematics describes

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the nature and
development of the

"profound
understanding of
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mathematics" that
elementary teachers
need to become

accomplished
mathematics teachers,
and suggests why such

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China than in the

United States, despite
the fact that Chinese
teachers have less

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formal education than
their U.S. counterparts.

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title={Knowing and

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author={Roger Howe},

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year={1999} }

**Knowing and
Teaching Elementary
Mathematics |
Semantic Scholar**

It disabuses people of the notion that elementary school mathematics is simple--or easy to teach. It cautions us, as Ma says in her conclusion, that "the key to reform... [is to] focus on substantive mathematics." And at

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the book's heart is the idea that student understanding is heavily dependent on teacher understanding.

Understanding

Knowing and teaching elementary mathematics, R

Askey - doc ...

The balanced view is that, within a well planned and adequately resourced curriculum, mathematics lessons should incorporate a

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range of teaching styles according to what is being taught. Lessons should include a mixture of exposition, and individual and cooperative activities.

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Teachers'

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Understanding of
Fundamental
Mathematics in China
and the United States.
By Liping Ma.

Understanding **Knowing and Teaching Elementary Mathematics: Teachers ...**

Following the small-
group discussions on
the preworkshop
assignment from Liping
Ma's book Knowing and
Teaching Elementary
Mathematics (1999), a

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panel set the stage for thinking about the two overarching questions that were the focus of the workshop: What is the mathematical knowledge teachers need to know to teach well?

Read "Knowing and Learning Mathematics for Teaching ...

It disabuses people of the notion that elementary school

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mathematics is simple—or easy to teach. It cautions us, as Ma says in her conclusion, that “the key to reform...[is to] focus on substantive mathematics.” And at the book’s heart is the idea that student understanding is heavily dependent on teacher understanding.

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MATHEMATICS -**

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DePaul University

Knowing a student as a mathematics learner is complex. An effective mathematics teacher quickly builds a picture of their students by progressively providing opportunities to demonstrate what he/she is learning. This way, teachers update and deepen their understanding of individual students.

What is Effective

Page 24/28

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Teaching of Mathematics?

Education Week talked to six publishers—Amplify, Great Minds, Illustrative Mathematics, Match Fishtank, Open Up Resources, and Savvas Learning Company—to understand what this preparation looks ...

**How to Make
Lessons Cohesive
When Teaching Both**

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Remote and ...

Jordan King, who serves as a teacher at Grandview Middle during the school year, worked with the elementary students on their math skills.

Summer Learning JumpStart is going amazingly well, she said.

Children Gain Skills with HPS Summer JumpStart | Education ...

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Classroom
States Liping Ma

That included having a special education teacher visit his classroom for one-on-one help with math three times a week. In 2016, a school employee quietly alerted Lee that her son wasn't getting ...

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